

What is claimed is:

- 1 1. A direct backlight module comprising:
2 a diffuser;
3 a reflecting plate connected to the diffuser and forming
4 a chamber therebetween;
5 a plurality of light sources disposed in the chamber; and
6 at least one transparent support disposed in the chamber
7 to support the diffuser and the reflecting plate.
- 1 2. The direct backlight module as claimed in claim 1,
2 wherein the at least one transparent support includes a
3 retaining portion and a supporting plate connected to each other
4 and disposed between the diffuser and the reflecting plate.
- 1 3. The direct backlight module as claimed in claim 2,
2 wherein the supporting plate contacts the diffuser and the
3 retaining portion connects the reflecting plate.
- 1 4. The direct backlight module as claimed in claim 2,
2 wherein the retaining portion and the supporting plate are
3 integrally formed.
- 1 5. The direct backlight module as claimed in claim 4,
2 wherein the at least one transparent support is manufactured by
3 injection molding.
- 1 6. The direct backlight module as claimed in claim 1,
2 wherein the supporting plate is a hollow frame.
- 1 7. The direct backlight module as claimed in claim 1,
2 wherein the plurality of light sources are lamps.

1 8. The direct backlight module as claimed in claim 1,
2 wherein the at least one transparent support comprises a
3 plurality of supporting units.

1 9. The direct backlight module as claimed in claim 8,
2 wherein the plurality of supporting units in the chamber are
3 arranged in array.

1 10. The direct backlight module as claimed in claim 8,
2 wherein the plurality of supporting units in the chamber are
3 arranged in concentric circles.

1 11. The direct backlight module as claimed in claim 8,
2 wherein the plurality of supporting units in the chamber are
3 arranged in random.

1 12. The direct backlight module as claimed in claim 8,
2 wherein each supporting unit has a retaining portion connected
3 to a supporting plate and is disposed between the diffuser and
4 the reflecting plate.

1 13. The direct backlight module as claimed in claim 12,
2 wherein the supporting plate contacts the diffuser and the
3 retaining portion connects the reflecting plate.

1 14. The direct backlight module as claimed in claim 12,
2 wherein the retaining portion and the supporting plate are
3 integrally formed.

1 15. The direct backlight module as claimed in claim 14,
2 wherein the at least one transparent support is manufactured by
3 injection molding.

1 16. The direct backlight module as claimed in claim 8,
2 wherein the plurality of supporting units are hollow frames.

3 17. The direct backlight module as claimed in claim 1,
4 wherein the at least one transparent support comprises a
5 diffusion material.

1 18. The direct backlight module as claimed in claim 1,
2 further comprising a diffusion material coated on the at least
3 one transparent support.